chronicle Showcase

Philippe Heymans Smith

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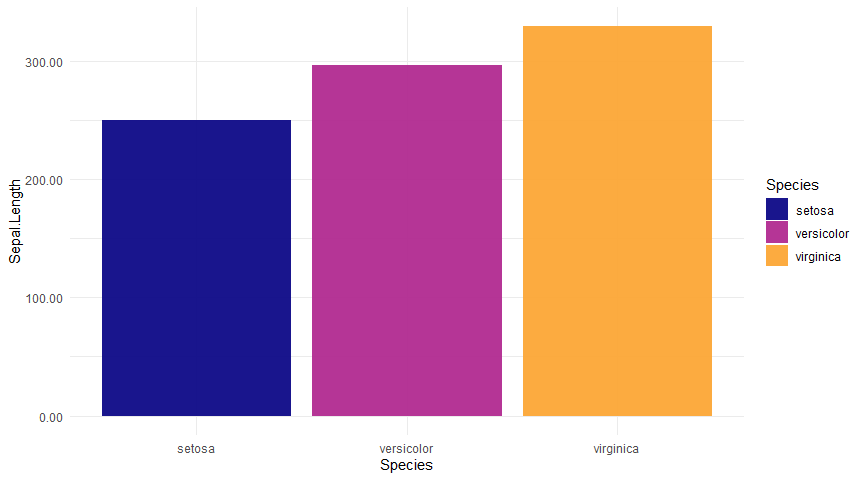
# This is how a chronicle report looks

This is a showcase of the outputs possible with the {chronicle} R package. For a complete how-to, please refer to the package’s [github page](https://github.com/pheymanss/chronicle).

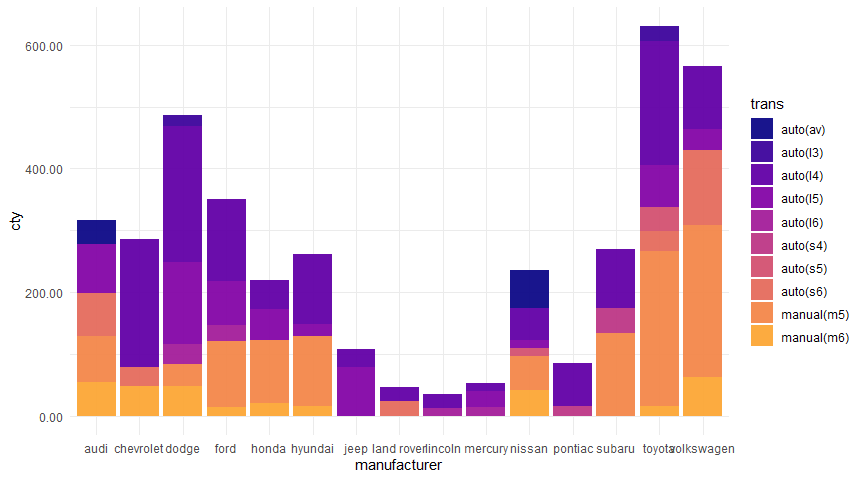
# Barplots

### chronicle::add\_barplot()

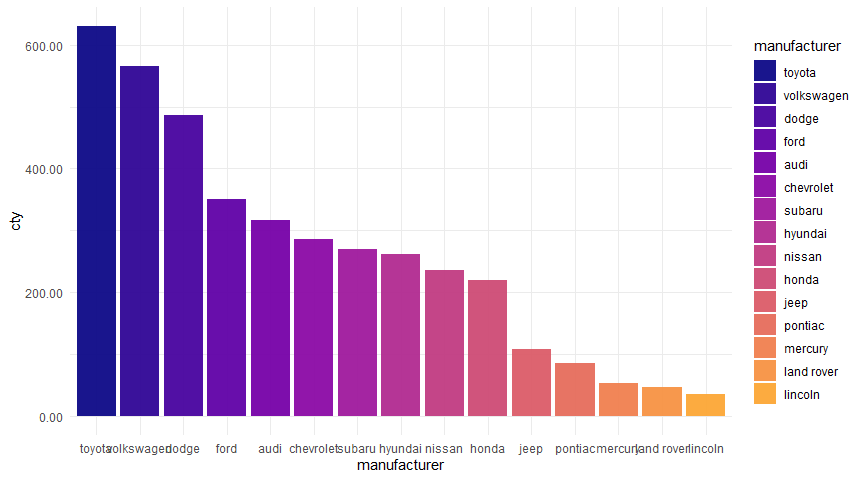
## Simple bar plot



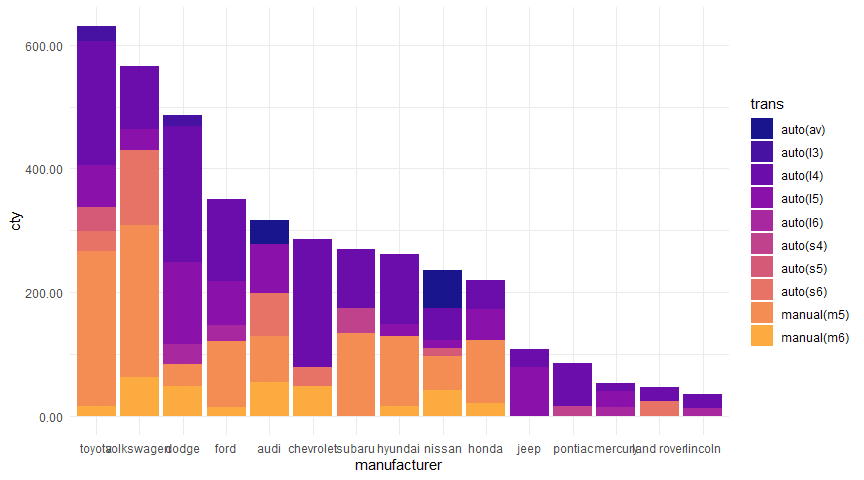
## Bars broken by other group



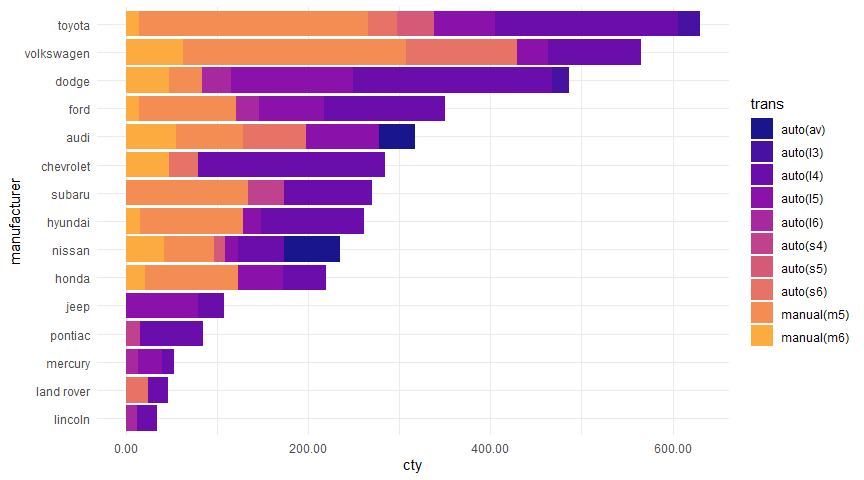
## Bars sorted by value



## Bars sorted by value and broken by another column



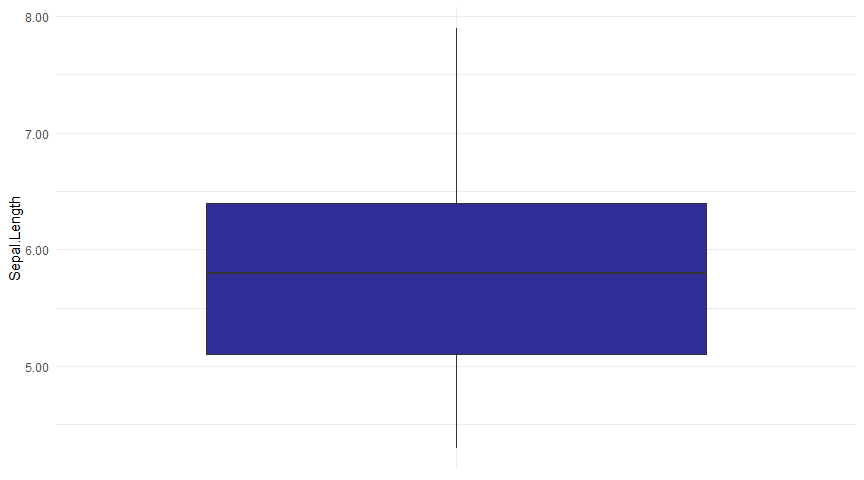
## Horizontally



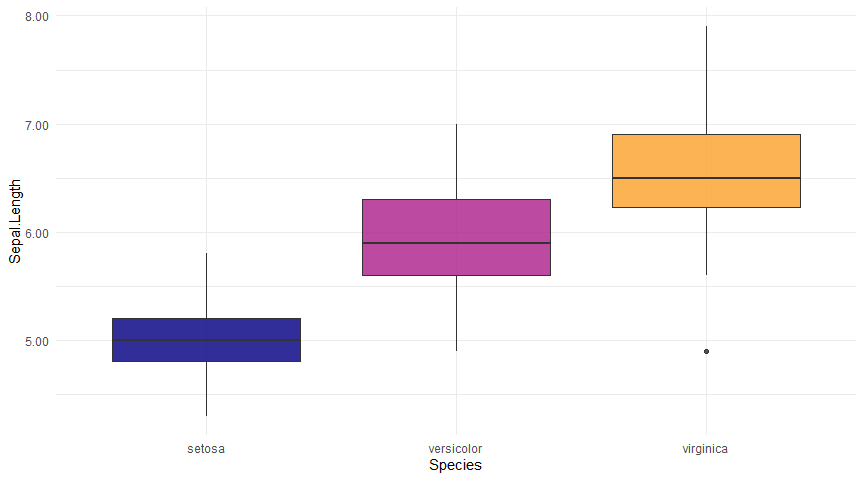
# Boxplots

### chronicle::add\_boxplot()

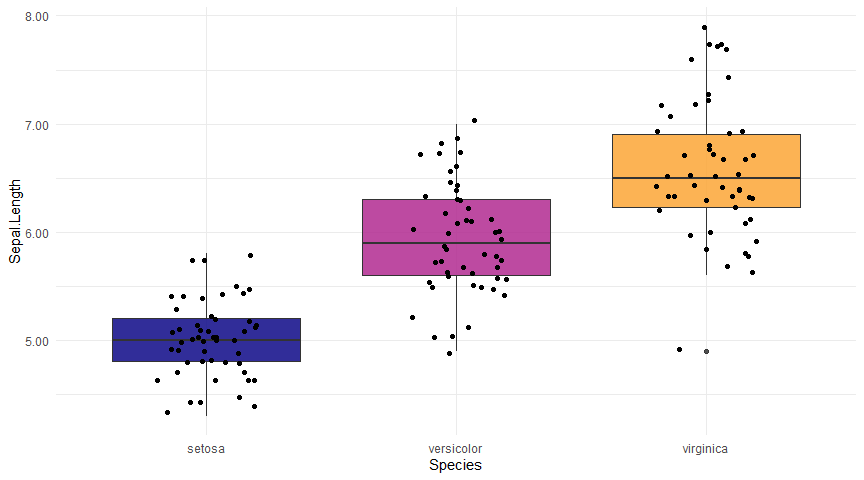
## Simple box plot



## Box plot by groups



## Box plot with jitter



# Code

### chronicle::add\_code()

This is an empty canvas for you to include any code you want.

### This is some code:

data.table(iris)[, .N, Species]

### It can also be evaluated!

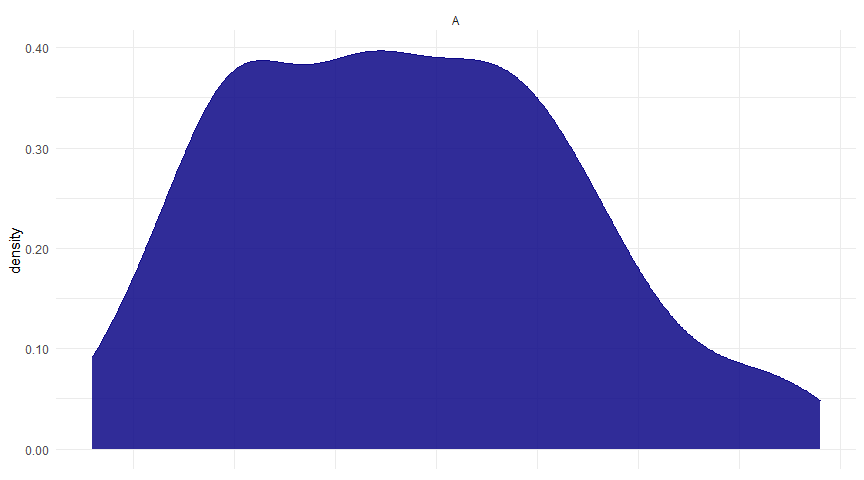
library(data.table)  
data.table(iris)[, .N, Species]

## Species N  
## 1: setosa 50  
## 2: versicolor 50  
## 3: virginica 50

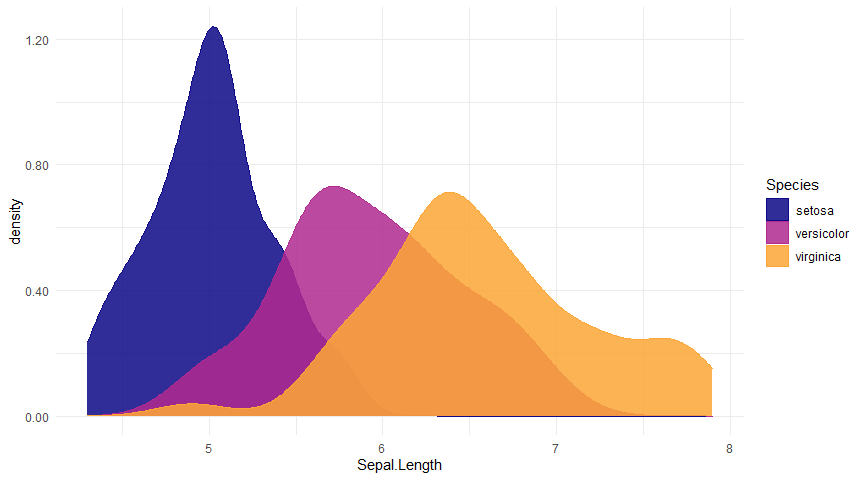
# Densities

### chronicle::add\_density()

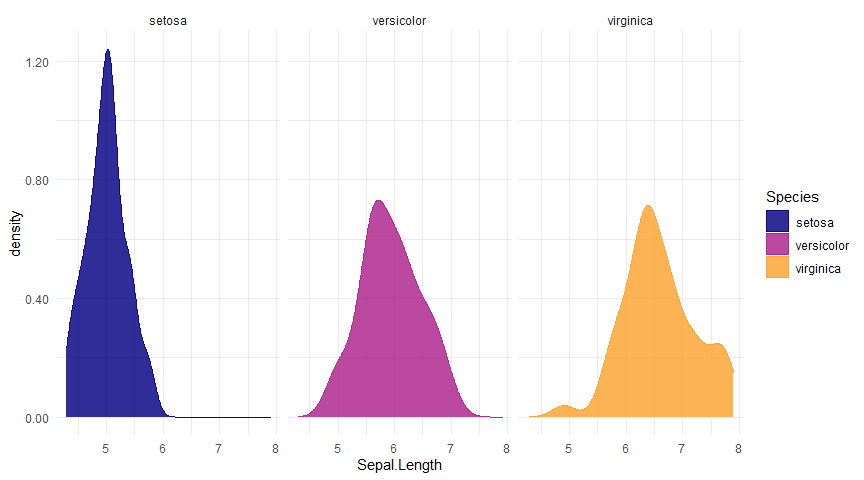
## Basic density



## Density by group



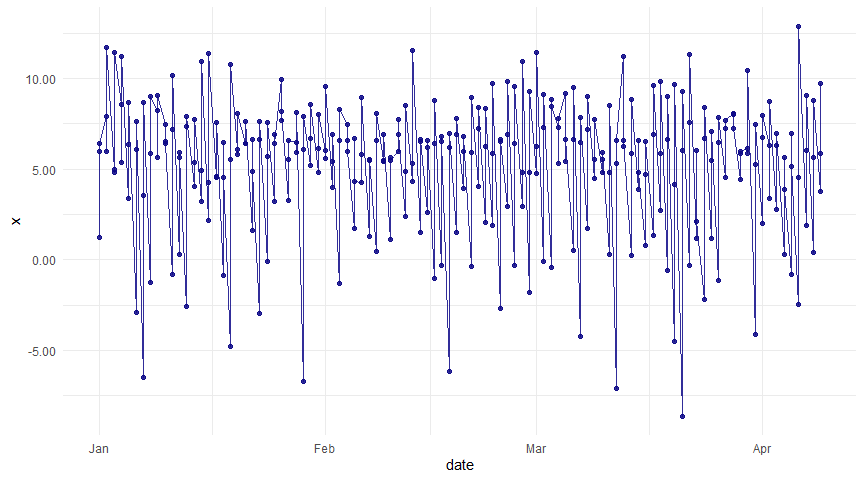
## Faceted densities



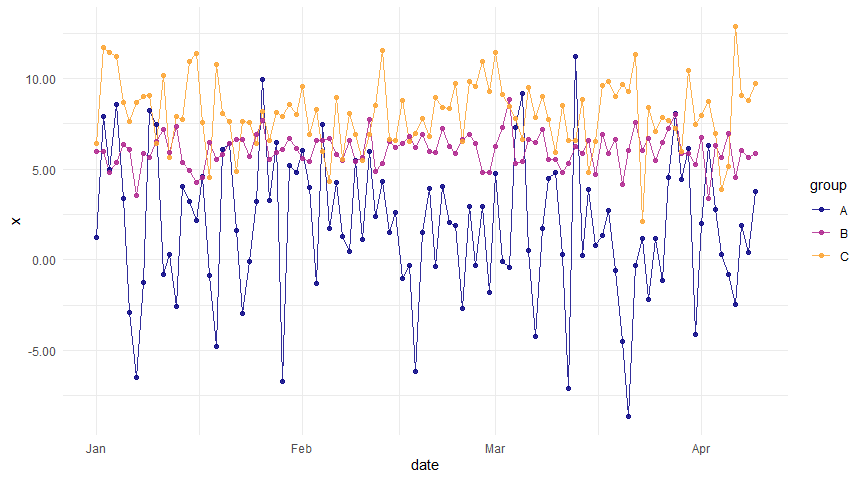
# dygraphs

### chronicle::add\_dygraph()

## Simple dygraph (in static outputs it will be replaced by line plots)



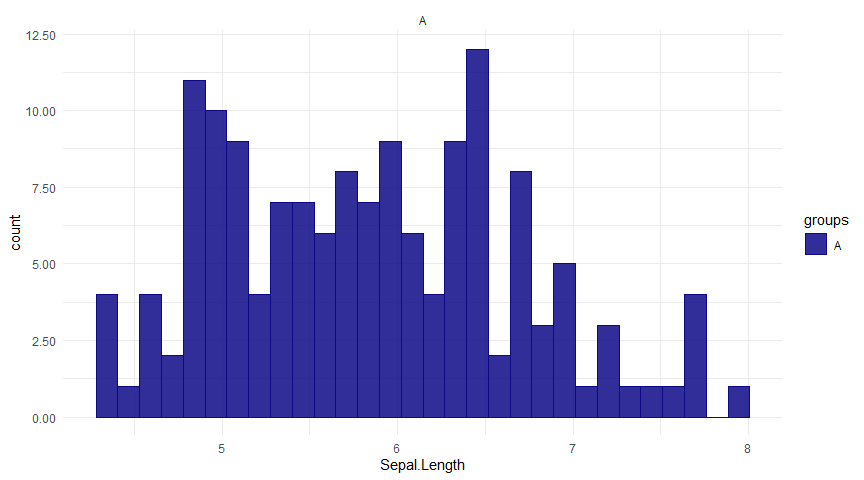
## Dygraph by groups



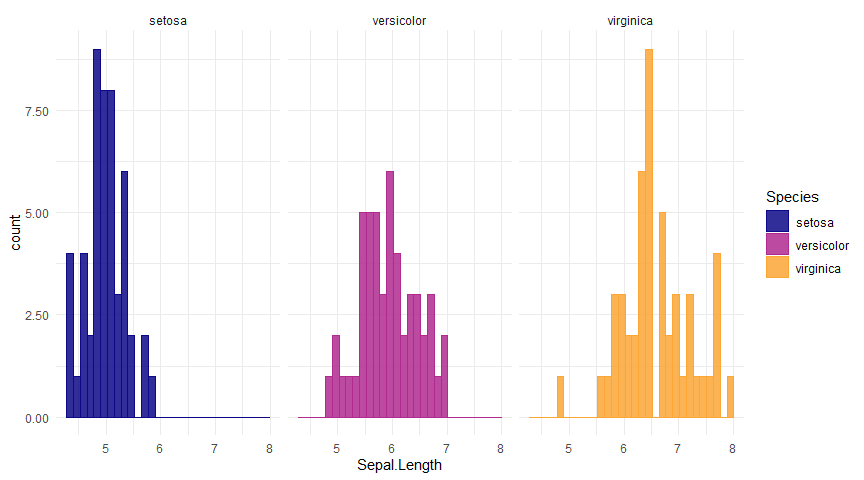
# Histograms()

### chronicle::add\_histogram

## Basic histogram



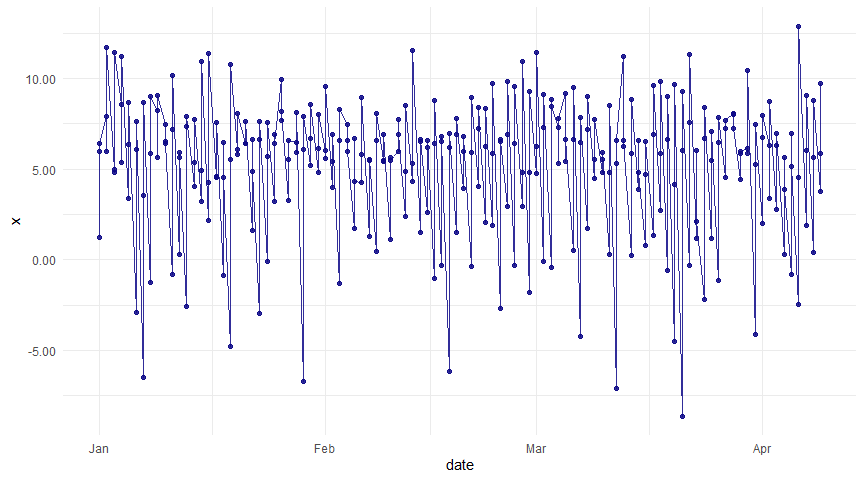
## Faceted histogram by groups



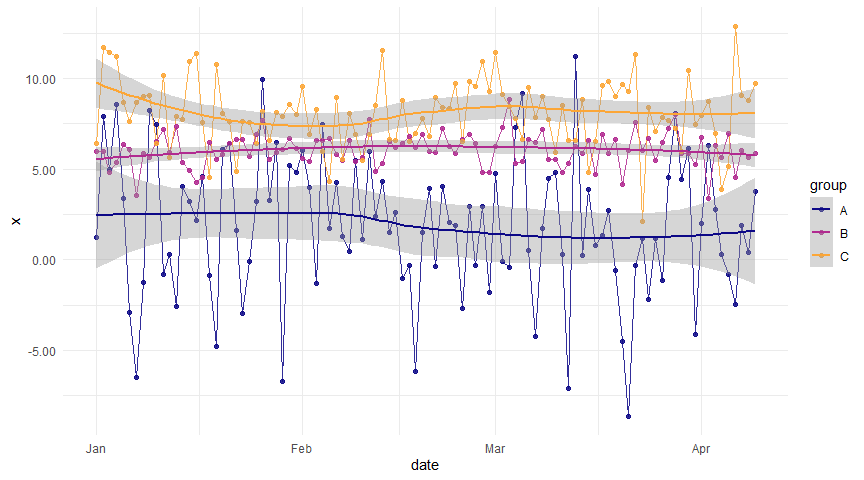
# Line plots

### chronicle::add\_lineplot()

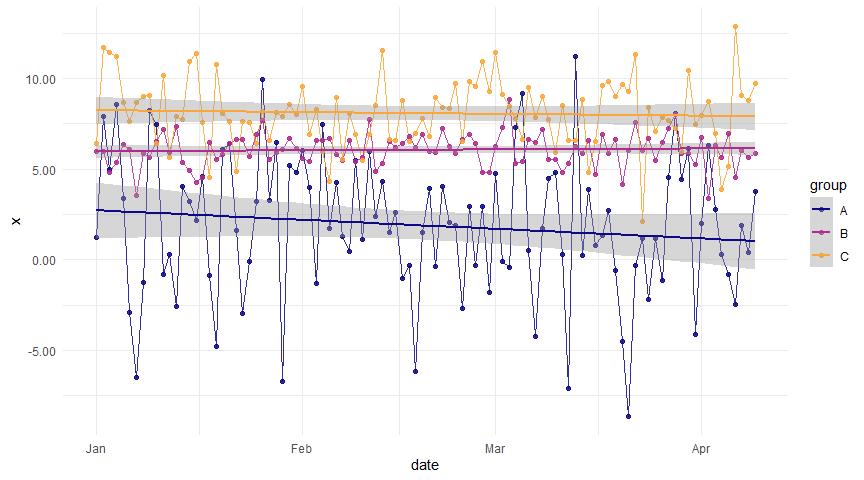
## Simple line plot



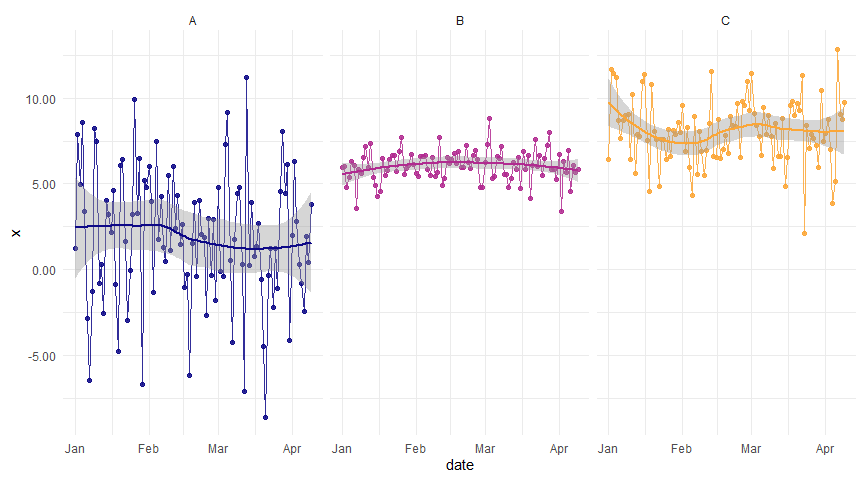
## Line plot with trend



## Line plot with linear trend



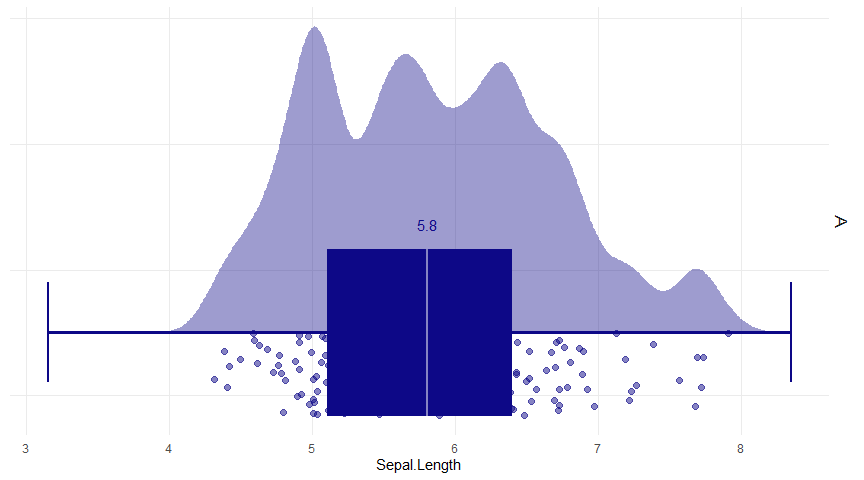
## Faceted line plot



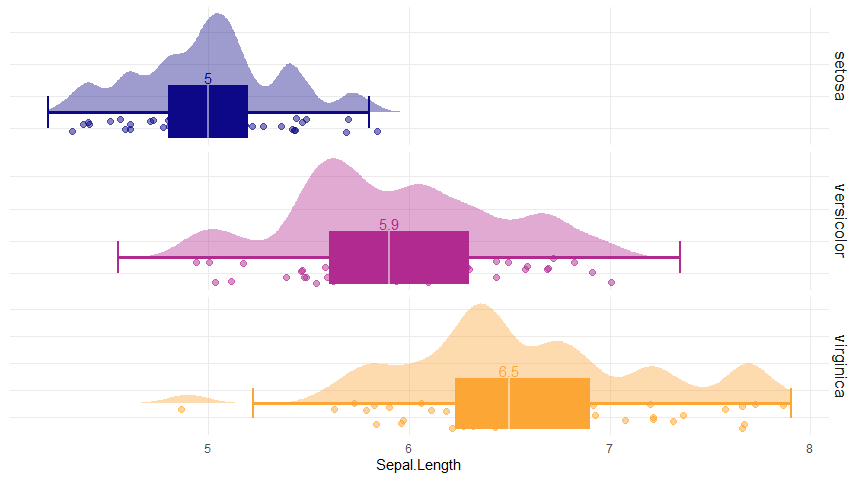
# Rain cloud plots

### chronicle::add\_raincloud()

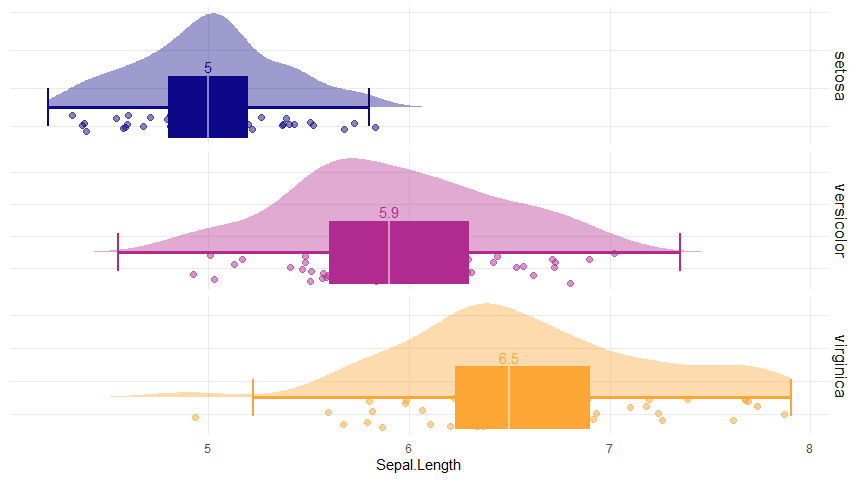
## Simple rain cloud



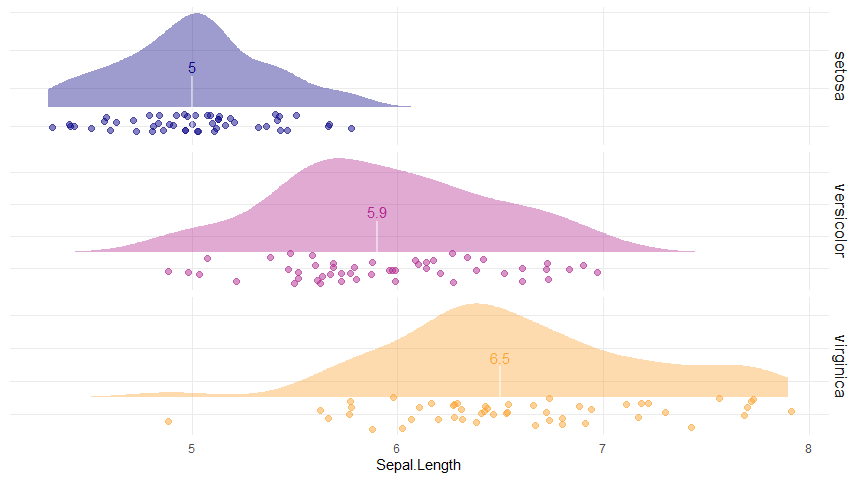
## Rain cloud by group



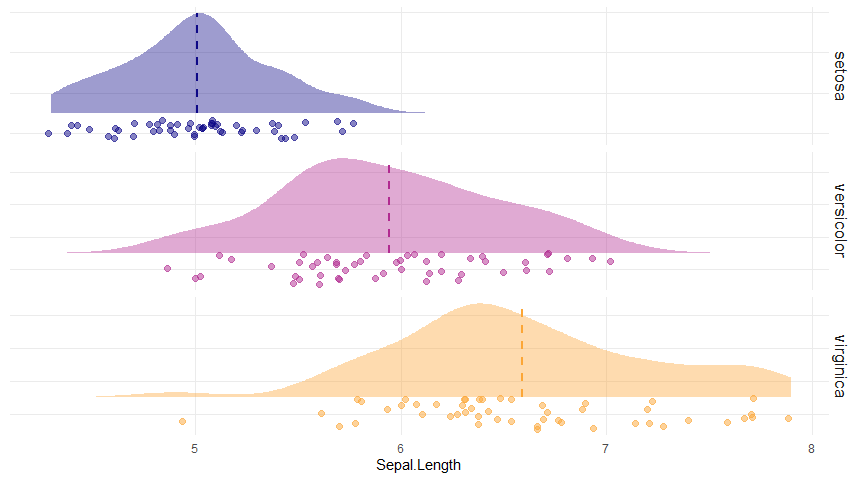
## Larger denisty kernel



## No boxplot, just the median



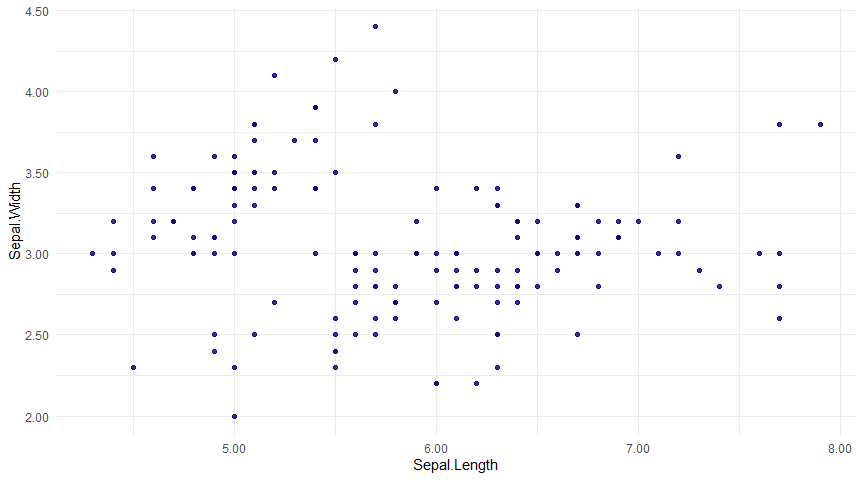
## With the mean instead of the boxplot



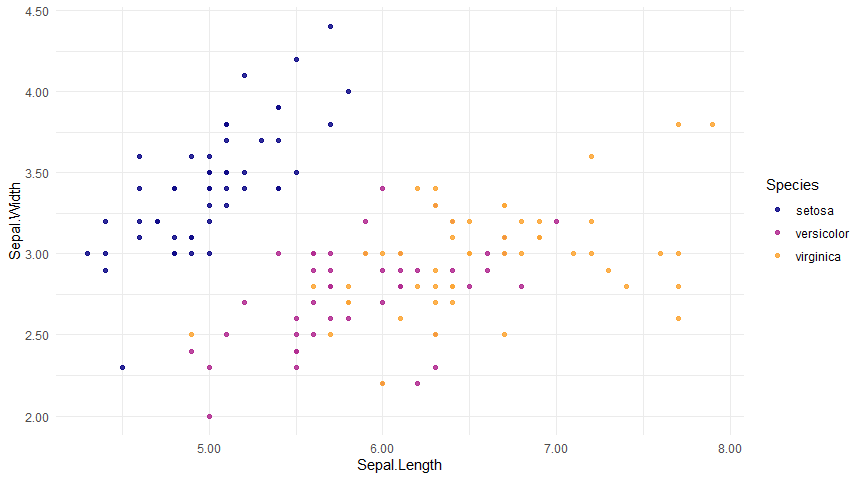
# Scatter plots

### chronicle::add\_scatterplot()

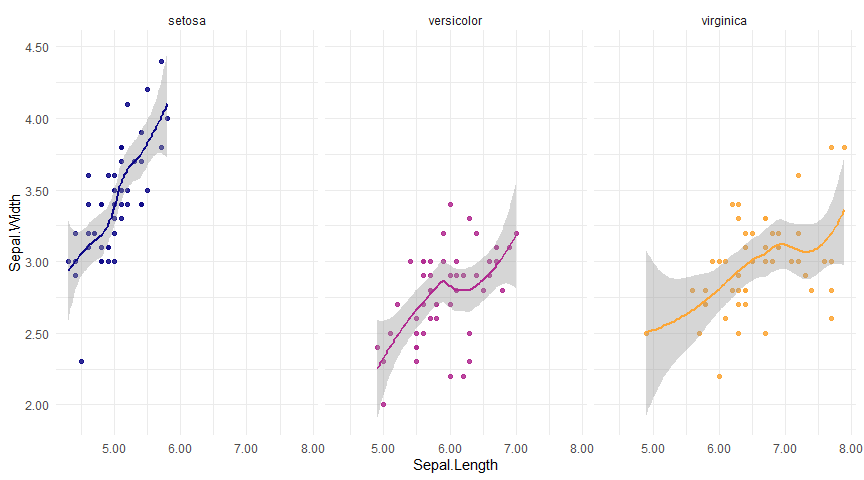
## Simple scatter plot



## Scatter plot with groups



## Faceted scatter plot with trend



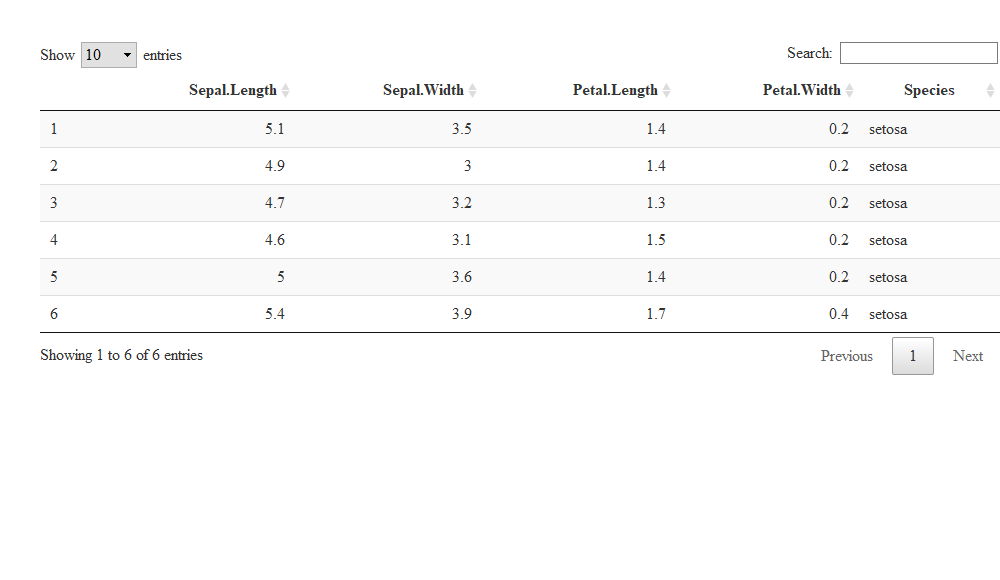
# Tables

### chronicle::add\_table()

### kable

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Sepal.Length | Sepal.Width | Petal.Length | Petal.Width | Species |
| 5.1 | 3.5 | 1.4 | 0.2 | setosa |
| 4.9 | 3.0 | 1.4 | 0.2 | setosa |
| 4.7 | 3.2 | 1.3 | 0.2 | setosa |
| 4.6 | 3.1 | 1.5 | 0.2 | setosa |
| 5.0 | 3.6 | 1.4 | 0.2 | setosa |
| 5.4 | 3.9 | 1.7 | 0.4 | setosa |

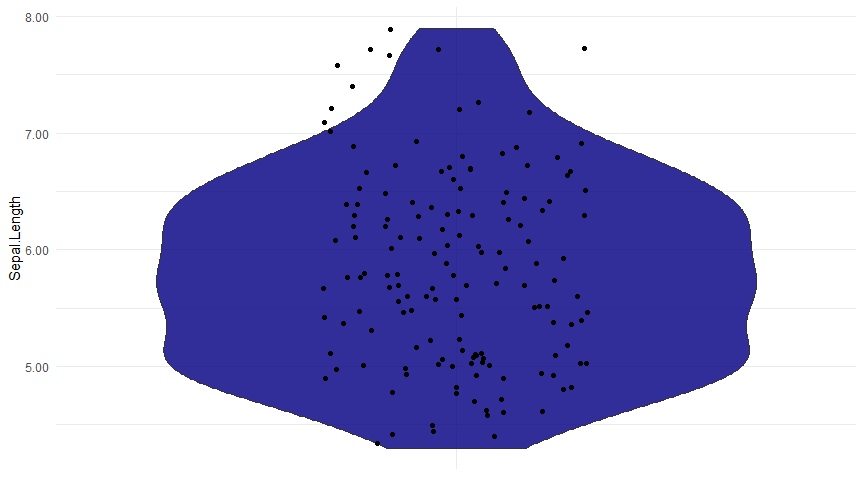
### DT



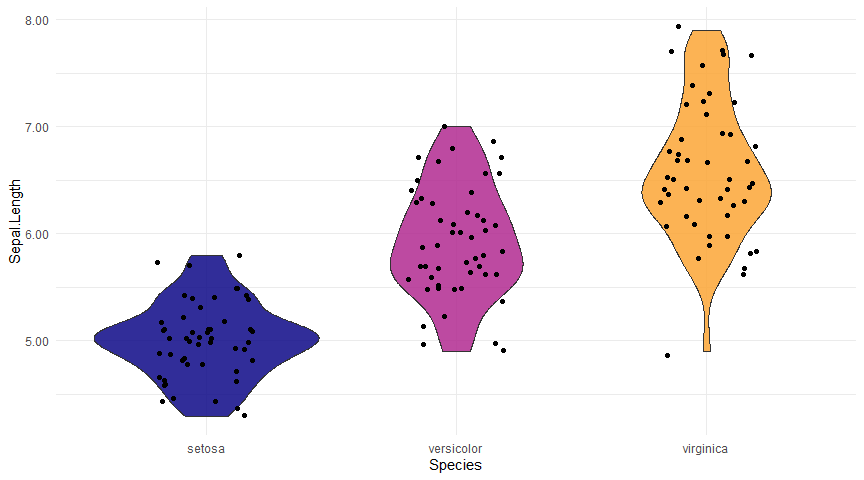
# Violins

### chronicle::add\_violin()

## Simple violin plot



## Violin plot by group



# Big Bonus! report\_columns()

chronicle also includes a function called report\_columns(), that will create an entire chronicle report for a single dataset. It includes a comprehensive summary of the data through the skimr::skim() function, along with one plot for each column present in the data: bar plots for categorical variables and rain cloud plots for numerical variables. This gives you an immediate view of a dataset with a single line of code!

report\_columns(dt = palmerpenguins::penguins,  
 by\_column = 'species')

you can see the example of this output [here](https://pheymanss.github.io/chronicle-demos/report_columns)

## sessionInfo

sessionInfo()

## R version 4.0.3 (2020-10-10)  
## Platform: x86\_64-w64-mingw32/x64 (64-bit)  
## Running under: Windows 10 x64 (build 19042)  
##   
## Matrix products: default  
##   
## locale:  
## [1] LC\_COLLATE=English\_United States.1252 LC\_CTYPE=English\_United States.1252 LC\_MONETARY=English\_United States.1252  
## [4] LC\_NUMERIC=C LC\_TIME=English\_United States.1252   
##   
## attached base packages:  
## [1] stats graphics grDevices utils datasets methods base   
##   
## other attached packages:  
## [1] stringr\_1.4.0 chronicle\_0.2.5 data.table\_1.13.6 magrittr\_2.0.1 rlang\_0.4.10   
##   
## loaded via a namespace (and not attached):  
## [1] tufte\_0.9 lattice\_0.20-41 tidyr\_1.1.2 ps\_1.5.0 zoo\_1.8-8 digest\_0.6.27   
## [7] R6\_2.5.0 evaluate\_0.14 httr\_1.4.2 xaringan\_0.19 ggplot2\_3.3.3 highr\_0.8   
## [13] pillar\_1.4.7 tictoc\_1.0 lazyeval\_0.2.2 rstudioapi\_0.13 callr\_3.5.1 Matrix\_1.2-18   
## [19] DT\_0.17 rmarkdown\_2.6 labeling\_0.4.2 splines\_4.0.3 webshot\_0.5.2 flexdashboard\_0.5.2  
## [25] rolldown\_0.1 readr\_1.4.0 htmlwidgets\_1.5.3 munsell\_0.5.0 tinytex\_0.28 compiler\_4.0.3   
## [31] xfun\_0.20 pkgconfig\_2.0.3 mgcv\_1.8-33 htmltools\_0.5.0 tidyselect\_1.1.0 tibble\_3.0.4   
## [37] gridExtra\_2.3 bookdown\_0.21 viridisLite\_0.3.0 crayon\_1.3.4 dplyr\_1.0.2 withr\_2.3.0   
## [43] grid\_4.0.3 nlme\_3.1-151 jsonlite\_1.7.2 gtable\_0.3.0 lifecycle\_0.2.0 scales\_1.1.1   
## [49] rmdformats\_1.0.1 stringi\_1.5.3 farver\_2.0.3 viridis\_0.5.1 dygraphs\_1.1.1.6 ellipsis\_0.3.1   
## [55] xts\_0.12.1 generics\_0.1.0 vctrs\_0.3.6 tools\_4.0.3 glue\_1.4.2 purrr\_0.3.4   
## [61] hms\_0.5.3 crosstalk\_1.1.0.1 prettydoc\_0.4.1 processx\_3.4.5 yaml\_2.2.1 colorspace\_2.0-0   
## [67] plotly\_4.9.3 knitr\_1.31 pagedown\_0.13